Appendix B Final CHART Assessment for the Northern California (NC) Steelhead ESU

ESU Description

The NC Steelhead ESU was listed as a threatened species in 2000 (65 FR 36074; June 7, 2000). The ESU includes all naturally spawned populations of steelhead in coastal river basins from Redwood Creek south to, and including, the Gualala River. Major watersheds occupied by naturally spawning fish in this ESU include Redwood Creek, Mad River, Eel River, and several smaller coastal watersheds southward to the Gualala River. Steelhead within this ESU include both winter and summer run types, including what is presently considered to be the southernmost population of summer steelhead in the Middle Fork Eel River (NMFS 1996). The half-pounder life history also occurs within the range of this ESU, specifically in the Mad and Eel Rivers. Based on an updated status review (NMFS 2003a) and an assessment of hatchery populations located within the range of the ESU (NMFS 2003b), NMFS proposed that the ESU remain listed as a threatened species and that resident O. mykiss co-occurring with anadromous populations below impassible barriers (both natural and man-made) as well as two artificial propagation programs (Yager Creek Hatchery and North Fork Gualala River Hatchery) be included in the ESU (69 FR 33102; June 14, 2004). NMFS recently determined that a 6-month extension in making a final listing determination for this and all other west coast steelhead/O. mykiss ESUs was warranted (70 FR 37219; June 28, 2005). A Technical Recovery Team has developed a preliminary model of the historic and extant population structure of this ESU. Additional technical recovery planning work is underway that will identify viability criteria for independent populations and the ESU as a whole

CHART Area Assessments

The preliminary CHART assessment for this ESU (NMFS 2004b) was prepared to support our December 10, 2004, critical habitat proposal (69 FR 71880). This final CHART assessment considered new information received during the public comment period regarding fish distribution and habitat use. Based on information from timber landowners on the north coast, the CHART made changes in fish distribution and habitat use in 13 watersheds (110720, 110810, 110820, 110930, 111000, 111132, 111133,

111311, 111312, 111313, 111320, 111330, 111340) that included portions of Redwood Creek, Mad River, Eel River, and the Mendocino Coast. These changes reduced the occupied habitat for this ESU by approximately 20 stream miles, but did not result in any changes in the occupancy or conservation value of Hydrologic Subareas (HSAs) within the freshwater and estuarine range of this ESU.

The final CHART assessment for the NC Steelhead ESU addressed 7 CALWATER Hydrologic Units (HUs) or subbasins containing 50 occupied HSAs (Figures B1 and B2). The HSAs were chosen as freshwater critical habitat units because they present a convenient and systematic way to organize the CHART's watershed assessments for this ESU. In addition to the 50 occupied HSA watershed units, conservation value assessments were also made for Humboldt Bay and the Eel River estuary. Information presented below for individual HUs within the range of the ESU (size, counties, total stream miles, occupied stream miles, and habitat use) were generated from GIS data sets compiled by NMFS Southwest Region and can be found in Table B1.

Unit 1. Redwood Creek Subbasin (HU 1107)

The Redwood Creek HU is located in the northern portion of the ESU and includes the Redwood Creek drainage. The HU encompasses approximately 294 mi² and occurs completely within Humboldt County. The HU contains 3 HSAs, all of which are occupied, and 343 stream miles (at 1:100,000 hydrography). Fish distribution and habitat use data compiled by NMFS biologists identify approximately 144 miles of occupied riverine habitat in the 3 occupied HSAs (Table B1). The CHART concluded that these occupied HSAs contained one or more PCEs (i.e. spawning, rearing, or migratory habitat) and identified several management activities that may affect the PCEs. Table B2 summarizes the total miles of occupied riverine/estuarine reaches for each HSA watershed that contain spawning/rearing, rearing/migration, or migration PCEs, as well as management activities that may affect the PCEs in each HSA. Map B1 depicts the specific areas in this HU and nested HSAs that are occupied by the ESU and were considered for critical habitat designation. The CHART did not identify any unoccupied habitat in this subbasin that may be essential for the conservation of the ESU.

Unit 2. Trinidad Subbasin (HU 1108)

The Trinidad HU is located in the northern portion of the ESU and includes Big Lagoon and Little River. The HU encompasses approximately 131 mi² and occurs completely within Humboldt County. This HU contains 2 HSAs, both of which are occupied, and

161 stream miles (at 1:100,000 hydrography). Fish distribution and habitat use data compiled by NMFS biologists identify approximately 69 miles of occupied riverine habitat in the occupied HSAs (Table B1). The CHART concluded that these occupied areas contained one or more PCEs (i.e. spawning, rearing, or migratory habitat) and identified management activities that may affect the PCEs. Table B2 summarizes the total miles of occupied riverine and estuarine reaches identified for each HSA watershed that contain spawning/rearing, rearing/migration, or migration PCEs, as well as management activities that may affect the PCEs in each HSA. Map B2 depicts the specific areas in this HU and the nested HSAs that are occupied by the ESU and were considered for critical habitat designation. The CHART did not identify any unoccupied habitat in this subbasin that may be essential for the conservation of the ESU.

Unit 3. Mad River Subbasin (HU1109)

The Mad River HU is located in the northern portion of the ESU and includes the Mad River drainage. The HU encompasses approximately 499 mi² and occurs in portions of Humboldt and Trinity Counties. This HU contains 4 HSAs, all of which are occupied, and a total of 661 miles of streams (at 1:100,000 hydrography). Fish distribution and habitat use data compiled by NMFS biologists identify approximately 169 miles of occupied riverine habitat in the 4 occupied HSAs (Table B1). The CHART concluded that these occupied areas contained one or more PCEs (i.e. spawning, rearing, or migratory habitat) and identified management activities that may affect the PCEs. Table B2 summarizes the total miles of occupied riverine and estuarine reaches identified for each HSA watershed that contain spawning/rearing, rearing/migration, or migration PCEs, as well as management activities that may affect the PCEs in each HSA. Map B3 depicts the specific areas in this HU that are occupied by the ESU and were considered for critical habitat designation. The CHART did not identify any unoccupied habitat in this subbasin that may be essential for the conservation of the ESU.

Unit 4. Eureka Plain Subbasin (HU 1110)

The Eureka Plain HU is located in the vicinity of Eureka, includes Humboldt Bay. The HU encompasses approximately 224 mi² and occurs completely within Humboldt County. This HU contains a single HSA which is occupied and a total of 269 miles of streams (at 1:100,000 hydrography). Fish distribution and habitat use data compiled by NMFS biologists identify approximately 123 miles of occupied riverine habitat in the occupied HSA (NMFS 2004a). The CHART concluded that these occupied areas contained one or more PCEs (i.e. spawning, rearing, or migratory habitat) for this ESU

and identified management activities that may affect the PCEs. The CHART also evaluated Humboldt Bay into which most of the freshwater streams in this subbasin drain as a separate unit. Humboldt Bay contains approximately 25 mi² of estuarine habitat which the CHART found contained PCEs for rearing and migration and concluded was of high conservation value. Table B2 summarizes the total miles of occupied riverine and estuarine habitat for the HSA that contain spawning/rearing, rearing/migration, or migration PCEs, as well as management activities that may affect the PCEs in each HSA. Map B4 depicts the specific areas in this HU that are occupied by the ESU and were considered for critical habitat designation. The CHART did not identify any unoccupied habitat in this subbasin that may be essential for the conservation of the ESU.

Unit 5. Eel River Subbasin (HU 1111)

The Eel River HU is located in north central portion of the ESU and includes the Eel River and Van Duzen River drainages. The HU encompasses approximately 3,682 mi² and occurs in portions of several counties including: Humboldt, Trinity, Mendocino, Lake, Glenn, Colusa, and Tehama. This HU, which is the largest in this ESU, contains 19 occupied HSAs and 5,194 miles of streams (at 1:100,000 hydrography). Fish distribution and habitat use data compiled by NMFS biologists identify approximately 1,275 miles of occupied riverine habitat in the occupied HSAs (Table B1). The CHART concluded that these occupied areas contained one or more PCEs (i.e. spawning, rearing, or migratory habitat) for this ESU and identified management activities that may affect the PCEs. Table B2 summarizes the total miles of occupied riverine habitat identified for each HSA watershed that contain spawning/rearing, rearing/migration, or migration PCEs, as well as management activities that may affect the PCEs in each HSA. Map B5 depicts the specific areas in this HU and nested HSAs that are occupied by the ESU and were considered for the critical habitat designation. The CHART did not identify any unoccupied habitat in this subbasin that may be essential for the conservation of the ESU.

Unit 6. Cape Mendocino Subbasin (HU 1112)

The Cape Mendocino HU is located in the central portion of the ESU and includes the Bear River and Mattole River drainages. This HU encompasses approximately 499 mi² and occurs almost entirely in Humboldt County. This HU contains 3 HSAs, all of which are occupied, and 654 miles of streams (at 1:100,000 hydrography). Fish distribution and habitat use data compiled by NMFS biologists identify approximately 340 miles of occupied riverine habitat in the 3 occupied HSAs (Table B1). The CHART concluded that these occupied areas contained one or more PCEs (i.e. spawning, rearing, or

migratory habitat) for this ESU and identified management activities that may affect the PCEs. Table B2 summarizes the total miles of occupied riverine and/or estuarine reaches identified for each HSA watershed that contain spawning/rearing, rearing/migration, or migration PCEs, as well as management activities that may affect the PCEs in each HSA. Map B6 depicts the specific areas in this HU and nested HSAs that are occupied by the ESU and were considered for critical habitat designation. The CHART did not identify any unoccupied habitat in this subbasin that may be essential for the conservation of the ESU.

Unit 7. Mendocino Coast Subbasin (HU 1112)

The Mendocino HU is located in the southern portion of the ESU within Mendocino and Sonoma Counties and includes several smaller streams including the Ten Mile, Noyo, Albion, Navarro, and Garcia Rivers. This HU which encompasses approximately 1,598 mi² contains 18 HSAs, all of which are occupied, and 2,103 miles of streams (at 1:100,000 hydrography). Fish distribution and habitat use data compiled by NMFS biologists identify approximately 1,028 miles of occupied riverine/estuarine habitat in the 18 HSAs (Table B1). The CHART concluded that these occupied areas contained one or more PCEs (i.e. spawning, rearing, or migratory habitat) for this ESU and identified management activities that may affect the PCEs. Table B2 summarizes the total miles of occupied riverine habitat identified for each HSA watershed that contain spawning/rearing, rearing/migration, or migration PCEs, as well as management activities that may affect the PCEs in each HSA. Map B7 depicts the specific areas in this HU and nested HSAs that are occupied by the ESU and were considered for critical habitat designation. The CHART did not identify any unoccupied habitat in this subbasin that may be essential for the conservation of the ESU.

CHART Final Conservation Value Ratings

Freshwater/Estuarine Areas

After reviewing the best available scientific data regarding the distribution and habitat use of the NC Steelhead ESU, the CHART concluded that most of the occupied HSAs were of high or medium conservation value to the ESU. Of the 50 occupied HSAs that were evaluated, 27 were rated as having high conservation value, 14 were rated as having medium conservation value, and 9 were rated as having low conservation value. In addition, both Humboldt Bay and the Eel River estuary were rated as having a high conservation value. Table B3 summarizes the CHARTs PCE/watershed scores and final

conservation value ratings (i.e. low, medium or high) for each HSA. Figure B8 depicts the overall spatial distribution of conservation scores for occupied HSAs within the ESU.

Marine Areas

NMFS determined that marine areas did not warrant consideration as critical habitat for this ESU.

References and Sources of Information

NMFS 1996. Status Review of West Coast Steelhead. Biological Review Team; Northwest Fisheries Science Center and Southwest Fisheries Science Center.

NMFS 2003a. Updated Status of Federally Listed ESUs of West Coast Salmon and Steelhead. West Coast Salmon Biological Review Team; Northwest Fisheries Science Center and Southwest Fisheries Science Center. July 2003.

NMFS 2003b. Hatchery Broodstock Summaries and Assessments for Chum, Coho, and Chinook Salmon and Steelhead Stocks within ESUs listed under the ESA. Salmon and Steelhead Hatchery Assessment Group/NOAA Fisheries; Northwest Fisheries Science Center and Southwest Fisheries Science Center.

NMFS 2004b. Draft Findings of NMFS's Critical Habitat Development and Review Teams (CHARTs) for 7 Salmon and <u>O. mykiss</u> ESUs in California. Main report and 7 appendices. Prepared by NMFS' Southwest Region.

Federal Register Notices

65 FR 36974 - Final Northern California Steelhead Listing Determination.

69 FR 33102 - Proposed Listing Determinations for 27 West Coast Salmon and Steelhead ESUs.

70 FR 37219 - 6-Month Extension of the Final Listing Determinations for 10 ESUs of West Coast Oncorhynchus mykiss.

Table B1. Northern Catifornia Steelhead ESU: Occupancy, habitat use and area information by Hydrologic Unit and Hydrologic Subarea

Stream Miles (1:100%) in the HSA	<u> </u>	5 %	85 65 346 165	369	200 200 200 200 200 200 200 200 200 200	29 120 505	21 25 25 25 27 11 11 12 13 25 25 25 25 25 25 25 25 25 25 25 25 25
Sir. Sir. (Lill)	118	84 47	28 88 87 15 15 15 15 15 15 15 15 15 15 15 15 15	234	88 88 88 88 89 99 99 99 99 99 99 99 99 9	373	1
Square Miles in HSA							
Acres in HSA	75,374 69,135 43,463	53,709	30,042 30,042 160,363 91,934	143,143	92,068 44,094 56,338 16,297 84,524 84,524 10,120 10,201 10,392 12,107 10,289 10,389 10,389 10,389 10,389 10,389 10,389 10,389 10,389 10,389 10,389 10,389 10,389 10,389	14,740 66,269 238,476	20.812 27,669 82,769 133,690 43,629 43,629 43,629 13,239 13,239 13,139 23,149 11,439 11,439 11,439 11,439 11,439
HSA Occupied O' or N)	* * *	* *	>>>>	>		> > >	
HSA NAME	Orick Benver Lake Prairie	Big Lagoon Little River	Blue Lake North Fork Mad River Buler Valley Ruth	Eureka Plain	Fembre Scotia Scotia Harbe Creck Hyderwije Bridgewije Bridgewije Bridgewije Bridgewije Bridgewije Step Creck West West West West West West West West	Oil Creek Capetown Mattole River	Usel Creek Wages Creek Ten Mile River Yen Mile River Alben River Alben River Alben River Greenwood Greek Bir Greek Bir Greek Bir Greek Breekpile Greek Bonder Greek Breekpile Greek Goneria Wiver South Forth Gulaba River Roberte Greek Goneria Wiver South Forth Gulaba River Goneria Wiver South Forth Gulaba River Goneria Wiver Goneria Wiver Goneria Wiver Goneria Greek Goneria Greek Goneria Greek Goneria Greek Goneria Greek Goneria
HSA NUMBER	110710 110720 110730	110819	110910 110920 110930 110940	111000		111210	11311 11312 11330 1130 1130
Percent of HU ly Coonty	100%	100%	3.2% 3.2%	500I	\$ 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	28. E.	×7.
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Count in g	187,972	83,640	217,897 101,580	61,64	785,833 116,889 118,899 1185,131 53,779 30	311,739 1,751	850,622 172,291
County HU Fulk	fumboldt	Humboldt	Humboldt Trinity	Humboldt	Humboldt Triniy Triniy Triniy Lake Olem Olem Tehans	Humboldt Mendocíno	Senema
Occupied Stream Miles (Migration)	88	05	£		<u>=</u>	333	£66
图目证别	0 1	S.	136	118	<u> </u>	340	8
图画型	138	55	281	r.	1071	361	857
9 0	1	69	691	ā	1275	340	1028
Stream Miles (1:100k) in HU	STE	191	199	269	\$1.5°	\$ 9	\$100g
	¥	E	667	ā	3682	86	6651
Acres in H1U	575,972	83.640	319,477	143,143	13.555.gr	319,484	1,022,913
HU Occupied (Yor N	:						
Major Stream /	Redwood Creek	Maple Creek-Little River	Mad River	Jacoby-Freshwater Elk River-Salmon- Humboldi Bay	Fel River-Van Dazen	Bear River Mattole River	Ten Mile-Noya, big
HUNAME	Redwood Creek	Trinidad	Mad River	. <u>s</u>	[ke] River	Cape Mendocino Bear River Mattole River	Mendocino Coast
KUNBER KVMBER	1107	8011	1109	1110	=	210	<u> </u>

*111163 Is bisceted by the ESU Boundary (Scott Dam). 46,517 seres (73 square miles) lie within the ESU; 106 stream miles lie within the ESU.

Table B2. Summary of Occupied Subbasins/Watersheds. PCE's and Management Activities Affecting PCE's for the Northern California Steelingad ESU

Map Code	Basin	Watershed	Calwater Unit	Spawning/Rearing PCEs (ml)**	Rearing/Migration PCEs (mi)**	Presence/Migration Only PCEs (ml)**	Management Activities***
	Redwood Creek	Orick	110710	67	67	65	FR, FC, GM, WI, GR
······································	Redwood Creek	Baeaver	110720	45	45	45	FR
***n	Redwood Creek	Lake Prairie	110730	28	28	28	FR, WI
	Trinkdad	Big Lagoon	110810	32	32	30	FR, NW
·	Trinidad	Little River	110820	20	20	20	FR, AG, GR, WI, NW, FC
	Mad River	Blue Lake	110910	35	35	33	FR, RB, AG, SC
	Mad River	North Fork Mad River	110920	18	16	16	FR, AG, GR, WI
	Mad River	Butler Valley	110930	77	77	74	FR, AG, GR, SC
	Mad River	Rulh	110940	9	9	9	FR, NH
	Eureka Plain	Eureka Plain	111000	118	118	118	UR, FC, RB, TR
	Eel River	Ferndale	115111	45	45	45	AG. FC, GM
	Eel River	Scotia	111112	41	41	41	GM, FR, ES
	Eel River	Larabee Creek	111113	43	44	44	AG, FR, WI
	Eel River	Hydesville	111121	29	29	27	FR, GM, ES, WI
	Eel River	Bridgeville	111122	78	78	71	FR, ES
	Eel River	Yager Creek	111123	38	38	38	FR. AG. GR. ES
	Eel River	Weatl	111131	70	70	70	
	Eel River	Benbow	111132	215	215	214	FR. ES. WI
one. On an annual	Eel River	Laytonville	111133	82	82	82	FR, UR, ES, WI
	Eel River	Sequoia	111141	61	61	57	FR, UR, ES, NW
	Eel River	Spy Rock	111142	96	96	65	FR, UR, NH
		North Fork Eel River	111150	85	85	74	AG, FR, ES, NH
	Eel River	Outlet Creek	111161	83	83	83	AG, GR, WI, ES, PO
	Eel River	Tomki Creek	111162	86	86	84	UR, FR, Wi, NW
	Eel River	Lake Pillsbury	111163	25	25	25	FR, WI, NW
	Eet River	Eden Valley	111171	45	64	53	ES, NH, NW
	Eel River	Round Valley	111172	37	46	~~~~	FR, GR, WI
	Eel River	Black Butte River	111173	30	30	34	AG, FR, WI
	Eel River	Wilderness	111174	38	38	30	FR, GR, WI
	Eel River	Oil Creek	111210			35	FR, PO
	Cape Mendocino			12	12	12	GR, FR
	Cape Mendocino	Capetown	111220	67	67	67	AG, GR, FR, Wi
	Cape Mendocino	Mattole River	111230	281	261	254	FR, AG, GR, WI
	Mendocino Coast	Usal Creek	111311	20	20	20	FR, RB
~~~~	Mendocino Coast	Wages Creek	111312	39	39	34	FR, RB, NW
	Mendocino Coast	Ten Mile Creek	111313	96	86	86	FR. GR. PO
	Mendocino Coast	Noyo River	111320	129	130	120	FR. UR, NW
	Mendocino Coast	Blg River	111330	161	161	151	FR, PO, WL
	Mendocino Coast	Albion River	111340	58	58	55	FR, UR, NW
	Mendocino Coast	Navarro River	111350	179	181	176	FR, AG, WI
	Mendocino Coast	Greenwood Creek	111361	10	10	10	FR
	Mendocino Coast	Elk Creek	111362	7	7	7	FR
	Mendocino Coast	Alder Creek	111363	7	7	7	FR, GR
	Mendocino Coast	Brush Creek	111364	13	13	13	FR, AG
	Mendocino Coast	Garcia River	111370	78	76	73	FR. AG, WI
	Mendocino Coast	North Fork Gualala River	111381	29	29	22	FR, RB, NW
	Mendocino Coast	Rockpile Creek	111382	10	10	10	FR, RB
	Mendocino Coast	Buckeye Creek	111383	26	26	26	FR, AG

Map Code		Watershed	Calwater Unit	Spawning/Rearing PCEs (ml)**		Presence/Migration Only PCEs (ml)**	Management Activities***
	Mendocino Coast	Wheatlield Fork	111384	71	71	71	FR, AG
	Mendocino Coast	Gualala	111385	67	67	61	GM, GR, RB
	Mendocino Coast	Russian Gulch	111390	4	4	4	GR

^{*}Total Stream Miles calculated from blueline streams represented on 1:100,000 USGS Topographic Maps

***Management Activities Codes:
AG - Agriculture
CM - Channel Modification
ES - Exolic / Invasive Species
FC - Flood Control Channel
FR - Forestry
GM - Sand and Gravel Mining
GR - Grazing
HD - Hydroelectric Dam
NH - Non-hydro Dam

NW - Non-agriculture Withdrawls / Impoundments PO - Poaching RB - Road Building / Maintenance SP Seplic System Failure / Contalnation TR - River, Estuary, Ocean Traffic UR - Urbanization WI - Agriculture Withdrawls / Impoundments WL - Wetland Loss / Removal

^{**}Overlap of stream miles may occur betweeen the three habitat types,

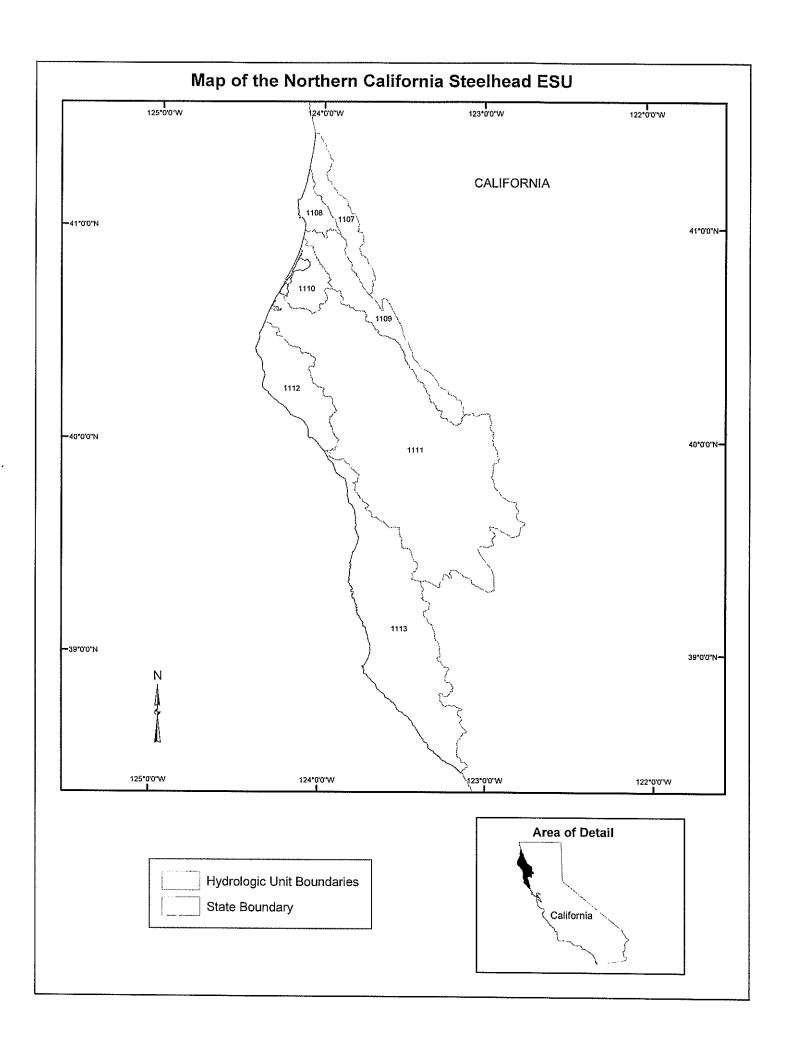
Table B3. Summary of Scores and Overall Rankings of Conservation Values for Critical Habitat for HSA watersheds occupied by the Northern California Steelhead ESU

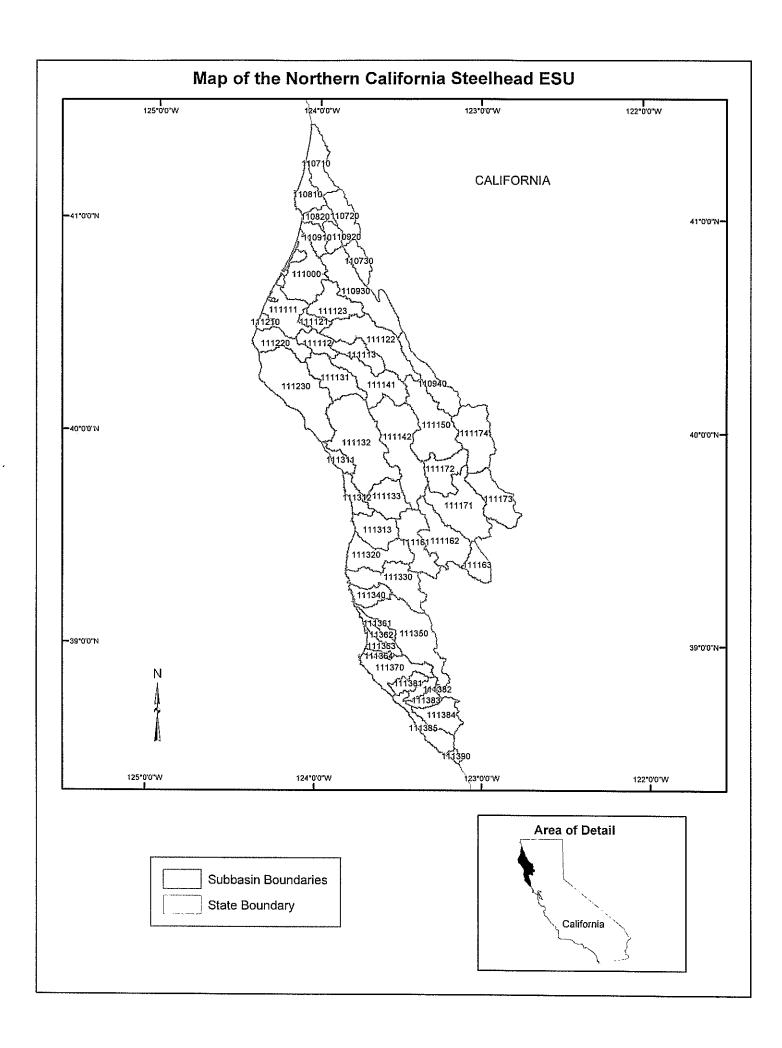
Map Code	Basin	Watershed	Calwater Unit	Total Score (0 18)	Comments / Other Considerations	Conservation Value
	Redwood Creek	Orick	110710	13		High
	Redwood Creek	Baeaver	110720	13		High
	Redwood Creek	Lake Prairie	110730	12		Medium
	Trinidad	Big Lagoon	110810	10		Low
	Trinidad	Little River	110820	13		High
	Mad River	Blue Lake	110910	13		High
	Mad River	North Fork Mad River	110920	14		High
	Mad River	Buller Valley	110930	12		High
	Mad River	Rulh	110940	10		Low
	Eureka Plain	Eureka Plain	111000	14		High
	Ecl River	Ferndale	111111	11		Medium
	Eel River	Scolia	111112	12		Medium
	Eel River	Larabee Creek	111113	14		High
	Eel River	Hydesville	111121	13		High
	Eel River	Bridgeville	111122	12		Medium
	Eel River	Yager Creek	111123	11		Medium
	Eel River	Weott	111131	13		High
	Eel River	Benbow	111132	14		High
· · · · · · · · · · · · · · · · · · ·	Eel River	Laytonville	111133	14		High
	Eel River	Sequoia	111141	12		Medium
***************************************	Eel River	Spy Rock	111142	11		Medium
	Eel River	North Fork Eel River	111150	11		Medium
	Eel River	Outlet Creek	111161	13		High
	Eel River	Tomki Creek	111162	13		High
· · · · · · · · · · · · · · · · · · ·	Eel River	Lake Pillsbury	111163	12		Medium
	Eel River	Eden Valley	111171	12		High
************************	Eel River	Round Valley	111172	11		Medium
·	Ecl River	Black Butte River	111173	12		High
***************************************	Eel River	Wilderness	111174	14		High
	Cape Mendocino	Oll Creek	111210	10		Low
	Cape Mendocino	Capelown	111220	10		Low
	Cape Mendocino	Mattole River	111230	14		High
	Mendocino Coast	Usal Creek	111311	11		Medium
	Mendocino Coast	Wages Creek	111312	11		Medium
	Mendocino Coast	Ten Mile Creek	111313	13		High
	Mendocino Coast	Noyo River	111320	13		High
***************************************	Mendocino Coast	Big River	111330	13		High
	Mendocino Coast	Albion River	111340	12		Medium
	Mendocino Coast	Navarro River	111350	14		High

Mendocino Coast	Greenwood Creek	111361	10	Low
Mendocino Coast	Elk Creek	111362	10	Medium
Mendocino Coast	Alder Creek	111363	9	Low
Mendocino Coast	Brush Creek	111364	10	Low
Mendocino Coast	Garcia River	111370	13	High
Mendocino Coast	North Fork Gualala River	111381	13	High
Mendocino Coast	Rockpile Creek	111382	10	Low
Mendocino Coast	Buckeye Creek	111383	12	High
Mendocino Coast	Wheatlield Fork	111384	13	High
Mendocino Coast	Gualala	111385	13	High
Mendocino Coast	Russian Gulch	111390	7	Low
Outside ESU	Lake Pillsbury	111163		High

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Figures B1 and B2: CALWATER Hydrologic Units and Hydrologic Subareas within the Range of the NC Steelhead ESU.





Maps B1 through B7: Northern California Steelhead ESU - Occupied Habitat Areas (Units) Considered for Critical Habitat Designation

- B1 Unit 1107 (Redwood Creek)
- B2 Unit 1108 (Trinidad)
- B3 Unit 1109 (Mad River)
- B4 Unit 1110 (Eureka Plain)
- B5 Unit 1111 (Eel River)
- B6 Unit 1112 (Cape Mendocino)
- B7 Unit 1113 (Mendocino Coast)